## 2008 SUMMER INTERNSHIP OPPORTUNITIES SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Job				Internship		
	Project Title	Class	Major	Period	Specific Work to be Performed	SFWMD Title
					Intern will be assigned to one or more restoration projects. He/she will be integrated into	
	Everglades Restoration Design		Civil or Environmental	6/2/2008 to	the design team in developing engineering solutions for developing design plans and	
NB50073942	Team	Junior/Senior	Engineering	8/22/08	specifications in the time, scope, and cost of the project.	Engineering Specialist 1
	Impact of Climate Change and			6/2/2008 to	Determine the extent of and level rise and evaluate projections. Determine rainfall	
NDEOCCOZOS		Camian/Craduata	Civil Engineering	8/22/08	Determine the extent of sea level rise and evaluate projections. Determine rainfall projections for south Florida. Modeling for impacts of the above.	Engine sving Chapielist 1
NB50069703	Variability on Water Resources	Senior/Graduate	Civil Engineering	8/22/08	Review literature on biogeochemical cycling of phosphorus in wetlands. Compile and	Engineering Specialist 1
	Testing Regional Simulation				synthesize existing data. Formulate preliminary algorithms at different levels of	
	Model - Water Quality Module at		Environmental Science,	6/2/2008 to	complexity. Test algorithms with Regional Simulation Model - Water Quality and	
NB50070336	Different Complexity Levels	Doctoral, Yr 2	Engineering	8/22/08	compare results.	Scientist 1
14250070550	Different Complexity Ecvels	Doctoral, 112	Engineering	0/22/00	compare results.	Ocientist 1
	Regional Simulation Model		Engineering, Environmental	6/2/2008 to	Propose a formulation to manage water demands and supply. Review existing methods	
NB50070358	Development	Doctoral, Yr 2	Science	8/22/08	for water management. Create a formulation for MSE based optimization methods.	Scientist 1
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	Fredricks Overlike Assessment				Meet with RECOVER ecological monitoring contract principal investigators and perform	
	Evaluate Quality Assurance		Francisco de la Colonia de Diolonia	0/0/0000 +-	field visits on each of their projects. Under the direction of Lead Scientist, will evaluate	
NDF0070070	/Quality Control Needs for	l	Environmental Science, Biology,	6/2/2008 to	level of, and need for revision or improvement in the QAQC procedures of each contract	0-1
NB50070370	RECOVER Monitoring Contracts	Junior/Senior	Chemistry	8/22/08	Develop and refine QAQC standards for ecological monitoring contracts.  In a team environment design, implement engineering solutions for deployment and	Scientist 1
					operation of RF Frequency redeployment project. Coordinate between site project	
					managers and staff engineers. Produce documentation of all sites (present and future)	
	Radio Frequency		Electrical Engineering	6/2/2008 to	that are part of project. Assist network team in testing, benchmarking from the RTU to	
NB50070382	Communication Project	Senior	specializing in Communications	8/22/08	the base station all the way through to the Telvent system.	Staff Electronics Engineer
ND30070302	Communication r roject	Seriioi	specializing in communications	0/22/00	the base station all the way through to the revent system.	Staff Electronics Engineer
	North Spur Microwave				In a team environment design, implement engineering solutions for the deployment,	
	Expansion (St. Cloud Field				operation of Microwave/Network System. Coordinate between site project managers and	
	Station and North Shore Pump		Electrical Engineering	6/2/2008 to	staff engineers. Document each North Spur Microwave Project site. Assist network team	
NB50070402	Stations)	Senior	specializing in Communications	8/22/08	in testing, benchmarking components of the North Spur Microwave system.	Staff Electronics Engineer
11200010102	o tallette)	00.110.	openium g m communications	0,22,00	Assist Auditors with performing audit procedures on various audit projects pursuant to	Cian Electronico Engineer
		Graduate, Yr 1 or		6/2/2008 to	the FY 2008 Audit Plan. Assist with audits of Acceler8 contracts, the SBE Program, and	
NB50070526	Internal Audit Projects (Various)	Yr 2	Accounting	8/22/08	General Engineering Services Contracts.	Consulting Auditor
	, , ,				Catalog, organize VHS, DVD, CD, 8 mm tapes and other e-media of Governing Board	
					meeting recordings to be readily accessible for retrieval plus update and input cataloging	
	Catalog Governing Board	Junior, Senior,		6/2/2008 to	information in database. Assist in cataloging and organizing other Governing Board	
NB50070531	Meeting Records	Graduate	Records Mgmt/Library Science	8/22/08	meeting records.	Records Information Specialist
					Gain understanding of installation and maintenance of surface water stage monitoring	
	Evaluate and Assess Flow	lumina Onnina	Civil Faviorana et al Famiorania	0/0/0000 +-	network. Perform hydraulic calculations to estimate flow data at water control structures.	
NDF0070F0F	Rating Equations at Water	Junior, Senior,	Civil, Environmental Engineering		Participate in stream gauging exercises. Develop rating equations to estimate flow data	Faring spin a Caracialist 4
NB50070535	Control Structures	Graduate	w/Water Resources Emphasis	8/22/08	from stream gauging data at water control structures.	Engineering Specialist 1
					Gain understanding of installation and maintenance of rain gauge tools. Participate in stream gauging exercises. Perform statistical data analysis comparing rainfall data with	
					radar precipitation estimates. Evaluate impact of rainfall on total water inventory budget.	
	Evaluate and Assess NEXRAD	Junior, Senior,	Civil, Environmental Engineering	6/2/2008 to	Compare accuracy of Vieux data with OneRain data to evaluate improvement in data	
NB50070542	Rainfall and Rain Gauge Data	Graduate	w/Water Resources Emphasis	8/22/08	accuracy.	Engineering Specialist 1
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					In a team environment design and implement engineering and programming solutions	
					for deployment and operation of telemetric equipment. Routine programming of	
					datalogger devices using C and Basic programming languages. Assist in delivering	
					command and control services to support water control operations. Assist in performing	
	Radio Frequency		Engineering w/Computer	6/2/2008 to	project test procedures in a lab environment. Participate in field infrastructure equipment	
NB50070558	Communication Project	Graduate, Yr 1	Programming	8/22/08	modification activities related to the RFCP project.	Systems Engineering Analyst

Job				Internship		
Reference #	Project Title	Class	Major	Period	Specific Work to be Performed	SFWMD Title
					Review, validate field documentation of alleged water restriction violations. Research,	
					confirm property ownership. Determine status of Water Use Permit using GIS tools and	
	Water Shortage				databases. Complete on-line enforcement referral. Assist with entering, issuing, tracking,	
	Compliance/Enforcement		Natural Science, Engineering,	6/2/2008 to	follow-up of Notices of Violations/Consent Agreements. General duties working with	
NB50070566	Support	Junior, Senior	Biology	8/22/08	software and communicating with the regulated public.	Scientist 1
					Compile and analyze data submitted in compliance with existing Water Use Permits.	
	l				Compare District methods of determining an appropriate water allocation versus actual	
	Water Shortage Allocation	Junior, Senior,		6/2/2008 to	use and other allocation methodology. Conduct field work and site inspections to learn	
NB50070572	Analysis	Graduate	Geology, Environmental Science	8/22/08	common irrigation practices and apply knowledge to assignment.	Scientist 1
					Identify and list potable water consumption rates for residential and non-residential uses,	
	Matan Baranaa Batahara			0/0/0000 +-	as they appear in the CUPs, Regional Water Supply Plans, and local government's	
NDF0070007	Water Resource Database	0	Haban and Danianal Diamaina	6/2/2008 to	comprehensive plans. Identify details of population projections (time spans and intervals)	Ot-# Disease
NB50070687	Development	Graduate	Urban and Regional Planning	8/22/08	of population projections as adopted by local governments in their comprehensive plans.	Starr Planner
	Laka Okasahahas In Laka		Environmental Science Aquatic	6/0/0000 40	Field collection of various ecosystem components including submerged aquatic	
ND50070745	Lake Okeechobee In-Lake	0	Environmental Science, Aquatic	6/2/2008 to	vegetation, plankton, water quality, invertebrates, and fish. Processing samples in the	0-1
NB50070745	Assessment	Senior, Graduate	Science	8/22/08	laboratory. Related data entry and management.	Scientist 1
		lumian Camian	Chamistry Biology	6/0/0000 40	Assist Chemist with remote nutrient analyzer network maintenance and development.	
ND50070747	l abaratarı (Internahin	Junior, Senior,	Chemistry, Biology,	6/2/2008 to	Assist with mercury analysis in fish tissue. Assist with algal toxins analysis. Conduct	Colombiat 1
NB50070747	Laboratory Internship	Graduate	Environmental Science	8/22/08	other laboratory activities as required.	Scientist 1
	Data Quality System in Water		Environmental Chemistry,		Assist in reviewing and updating quality system standard operating procedures; and/or	
	Quality Monitoring and	Graduate, Yr 2 or	Natural Resources, Soil	6/2/2008 to	reviewing and commenting on monitoring plans and auditing reports; data quality	
NB50070755	Environmental Assessment	above	Science, Ecology	8/22/08	investigation and database management; and inter-laboratory performance evaluation.	Scientist 1
NB30070733	Elivirolimentai Assessment	above	Science, Ecology	0/22/00	Investigation and database management, and inter-laboratory performance evaluation.	Scientist
	Loxahatchee Impoundment		Sciences and/or Communication.			
	Landscape Assessment (LILA)	Senior, Graduate,	prefer experience/education in	6/2/08 to	Develop print material, video and presentations about LILA research. Assist site	
NB50070761	Research, Education/Outreach	Yr1	biology	6/2/09	manager with field operations including conducting research.	Scientist 1
11030070701	Research, Education/Odireach	111	biology	0/2/09	Intanager with field operations including conducting research.	Scientist 1
					This is a scientific position responsible for conducting paleoecological research	
					pertaining to vegetation changes in Everglades marsh and tree island habitats. The	
					position will involve: microscope and other laboratory work to identify plant fossils from	
					peat cores; design of student research project; review of paleoecological and Everglades	
					literature; and summarizing and statistically analyzing ecological data. The position may	
	Paleoecological Reconstruction				also involve some field work under Florida wetland conditions (heat, working in waders,	
	of Pre-Drainage and Modern				mosquitoes). Coursework in hydrology, aquatic ecology, and environmental chemistry	
	Vegetation in the Everglades		Biology, Environmental	1	are desired as well as knowledge of South Florida. The individual hired for this position	
	Ridge-and-Slough Landscape		Sciences, Hydrology, Wildlife	5/1/08 to	should be in pursuit of degree in ecology, environmental science, hydrology, or a related	
NB50070763	(Water Conservation Area-2A)	Junior, Senior	Ecology, or related field	6/2/09	field. This position requires the possession of a valid Florida driver's license.	Scientist 1
	(Trace: Concorration Field 2Ft)	Julio1, Julio1		5,2,00	This is a scientific position responsible for conducting paleoecological research	
					pertaining to vegetation changes in marl prairie habitat, Everglades National Park. The	
				1	position will involve: microscope and other laboratory work to identify plant fossils	
				1	recovered from marl soils; design of a student research project; review of	
					paleoecological and Everglades literature; and summarizing and statistically analyzing	
				1	ecological data. The position may also involve some field work under Florida wetland	
	Paleoecological Reconstruction				conditions (heat, working in waders, mosquitoes). Coursework in hydrology, aquatic	
	of Pre-Drainage and Modern				ecology, and environmental chemistry are desired as well as knowledge of South	
	Vegetation in the Everglades		Biology, Environmental		Florida. The individual hired for this position should be in pursuit of degree in ecology,	
	southern marl prairies		Sciences, Hydrology, Wildlife	5/108 to	environmental science, hydrology, or a related field. This position requires the	
NB50070765	(Everglades National Park)	Junior, Senior	Ecology, or related field	6/2/09	possession of a valid Florida driver's license.	Scientist 1
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